VACUUM PUMP PROTECTION FILTERS

Walker Filtration offer a full range of Vacuum pump protection filters from \( \frac{1}{4} \)" to 3" connection sizes. The range covers the most popular size of vacuum pump with flow rates up to 550 Nm\(^3\)/h (325 scfm) however larger fabricated models are available upon request. With a vacuum rating of 0.1 Torr they are suitable for both rough vacuum and high vacuum applications. The 5 micron VLR grade is designed for bulk liquid and high dirt removal to prevent liquid contamination and damage to rotating parts. The high efficiency 1 micron VX1 grade is designed to remove very fine particulate matter which may damage the pump or process application. The filter elements use a high dirt loading glass microfibre filter medium backed up with stainless steel metalwork and nylon endcaps to offer low pressure loss performance. These models incorporate the unique Walker designed ‘push on’ filter element, which reduces maintenance time and allows the filter to be located in the most confined places. The filter housings are manufactured from diecast aluminium with a tough polyester powder coating and are supplied complete with differential pressure gauge and drain valve.
TECHNICAL DATA

VACUUM PUMP PROTECTION FILTERS

NOTES

1. Vacuum pump protection filters are manufactured from aluminium.
2. Threaded connections are BSP parallel to ISO7/1 or NPT to ANSI B2.1 if supplied within North America.
3. Filter element end caps are colour coded. Direction of air flow, inside to out, through filter element.
4. Differential pressure gauges are fitted to models A27 (grade) to A308 (grade), part number 55DPG250W.
5. Manual drain valves, model MDV25 are fitted to all models.
6. Drain flasks are available for liquid collection.
7. Mounting brackets are available for all models.
8. All filter bodies feature the Walker E-Coat™ and are coated with blue polyester powder paint finish to eliminate corrosion.
9. Vacuum pump protection filters and filter elements are suitable for use with mineral and synthetic oils.
10. Vacuum pump protection filters and filter elements are silicone free.

CORRECTION FACTOR

For maximum flow rate, multiply model flow rate shown in the above table by the correction factor corresponding to the working vacuum.

<table>
<thead>
<tr>
<th>Operating Vacuum</th>
<th>900</th>
<th>800</th>
<th>700</th>
<th>600</th>
<th>500</th>
<th>400</th>
<th>500 mm hg</th>
<th>300</th>
<th>200</th>
</tr>
</thead>
<tbody>
<tr>
<td>m bar abs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>torr</td>
<td>760</td>
<td>675</td>
<td>600</td>
<td>525</td>
<td>450</td>
<td>375</td>
<td>300</td>
<td>260</td>
<td>225</td>
</tr>
<tr>
<td>psia</td>
<td>14.7</td>
<td>13</td>
<td>11.6</td>
<td>10.2</td>
<td>8.7</td>
<td>7.3</td>
<td>5.8</td>
<td>3.8</td>
<td>3.3</td>
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</table>

Correction Factor

<table>
<thead>
<tr>
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<th>1</th>
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</thead>
</table>

Larger sizes are available on application.

SPECIFICATION

<table>
<thead>
<tr>
<th>GRADE VLR</th>
<th>GRADE VX1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Particle removal</td>
<td>5 micron</td>
</tr>
<tr>
<td>Maximum temperature</td>
<td>120°C</td>
</tr>
<tr>
<td>Pressure loss-clean &amp; dry</td>
<td>20 mbar</td>
</tr>
<tr>
<td>Pressure loss-change element</td>
<td>100 mbar</td>
</tr>
<tr>
<td>Maximum working pressure</td>
<td>4 bar abs.</td>
</tr>
<tr>
<td>Maximum working vacuum</td>
<td>0.1 Torr</td>
</tr>
<tr>
<td>Element end cap colour code</td>
<td>green</td>
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</table>

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